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1 GPGPU: general purpose computation on graphics hardware
David Luebke, Mark Harris, Jens Krüger, Tim Purcell, Naga Govindaraju, Ian Buck, Cliff Woolley, Aaron Lefohn
August 2004 **SIGGRAPH '04:** SIGGRAPH 2004 Course Notes
Publisher: ACM ◈ Request Permissions
Full text available: 🔲 Pdf (63.03 MB)   Additional Information: full citation, abstract, cited by
Bibliometrics: Downloads (6 Weeks): 212,   Downloads (12 Months): 1582,   Downloads (Overall): 6122,   Citation Count:

The graphics processor (GPU) on today's commodity video cards has evolved into an extremely powerful and
processor. The latest graphics architectures provide tremendous memory bandwidth and computational hors
with fully programmable vertex ...

2 Communications of the ACM: Volume 52 Issue 10
October 2009 Communications of the ACM
Publisher: ACM
Full text available: 🔲 Digital Edition , 🔲 Pdf (7.38 MB) Additional Information: full citation
Bibliometrics: Downloads (6 Weeks): 2461,   Downloads (12 Months): 2461,   Downloads (Overall): 2461,   Citation Coun

3 Efficient schemes for managing multiversionXML documents
S.-Y. Chien, V. J. Tsotras, C. Zaniolo
December 2002 **The VLDB Journal — The International Journal on Very Large Data Bases** , Volume 11 Issue
Publisher: Springer-Verlag New York, Inc.
Full text available: 🔲 Pdf (926.90 KB)   Additional Information: full citation, abstract, references, cited by, index terms
Bibliometrics: Downloads (6 Weeks): 6,   Downloads (12 Months): 32,   Downloads (Overall): 376,   Citation Count: 10

Multiversion support for XML documents is needed in many critical applications, such as software configuratic cooperative authoring, web information warehouses, and "e-permanence" of web documents. In this paper, v introduce efficient ...

Keywords: Historical queries, Temporal clustering, Temporal indexing, Version management, XML database

4 Inverted files for text search engines

Justin Zobel, Alistair Moffat
July 2006   **Computing Surveys (CSUR)** , Volume 38 Issue 2

Publisher: ACM Request Permissions

Full text available: Pdf (944.29 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 156, Downloads (12 Months): 1501, Downloads (Overall): 6579,   Citation Count:

The technology underlying text search engines has advanced dramatically in the past decade. The developme family of new index representations has led to a wide range of innovations in index storage, index constructic query evaluation. While ...

Keywords: Inverted file indexing, Web search engine, document database, information retrieval, text retriev

5 Mercury BLASTP: Accelerating Protein Sequence Alignment

Arpith Jacob, Joseph Lancaster, Jeremy Buhler, Brandon Harris, Roger D. Chamberlain
June 2008   **Transactions on Reconfigurable Technology and Systems (TRETS)** , Volume 1 Issue 2

Publisher: ACM Request Permissions

Full text available: Pdf (779.22 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 27, Downloads (12 Months): 209, Downloads (Overall): 259,   Citation Count: 1

Large-scale protein sequence comparison is an important but compute-intensive task in molecular biology. B the most popular tool for comparative analysis of protein sequences. In recent years, an exponential increase size of protein sequence ...

Keywords: Bioinformatics, biological sequence alignment

6 Realistic materials in computer graphics

Hendrik P. A. Lensch, Michael Goesele, Yung-Yu Chuang, Tim Hawkins, Steve Marschner, Wojciech Matusik, Ger

July 2005   **SIGGRAPH '05:** SIGGRAPH 2005 Courses

Publisher: ACM ◊ Request Permissions

Full text available: Pdf (18.24 MB)   Additional Information: full citation, references

Bibliometrics: Downloads (6 Weeks): 57,   Downloads (12 Months): 694,   Downloads (Overall): 2018,   Citation Count: 0

7 Communications of the ACM: Volume 52 Issue 2

February 2009 Communications of the ACM

Publisher: ACM

Full text available: Digital Edition , Pdf (7.09 MB) Additional Information: full citation, index terms

Bibliometrics: Downloads (6 Weeks): 376,   Downloads (12 Months): 3190,   Downloads (Overall): 3190,   Citation Count:

8 Stasis: flexible transactional storage

Russell Sears, Eric Brewer

November 2006 **OSDI '06:** Proceedings of the 7th symposium on Operating systems design and implementation

Publisher: USENIX Association

Full text available: Pdf (492.74 KB)   Additional Information: full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): 3,   Downloads (12 Months): 70,   Downloads (Overall): 131,   Citation Count: 1

An increasing range of applications requires robust support for atomic, durable and concurrent transactions. Databases provide the default solution, but force applications to interact via SQL and to forfeit control over d and access mechanisms. ...

9 Managing duplicates in a web archive

Daniel Gomes, André L. Santos, Mario J. Silva

April 2006   **SAC '06:** Proceedings of the 2006 ACM symposium on Applied computing

Publisher: ACM ◊ Request Permissions

Full text available: Pdf (266.54 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 7,   Downloads (12 Months): 57,   Downloads (Overall): 263,   Citation Count: 2

Crawlers harvest the web by iteratively downloading documents referenced by URLs. It is frequent to find dif URLs that refer to the same document, leading crawlers to download duplicates. Hence, web archives built th incremental crawls waste ...

10 Performance tradeoffs in read-optimized databases

Stavros Harizopoulos, Velen Liang, Daniel J. Abadi, Samuel Madden

September 2006 **VLDB '06:** Proceedings of the 32nd international conference on Very large data bases
Publisher: VLDB Endowment
Full text available: Pdf (735.37 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 27,   Downloads (12 Months): 147,   Downloads (Overall): 489,   Citation Count: 14

Database systems have traditionally optimized performance for write-intensive workloads. Recently, there ha
renewed interest in architectures that optimize read performance by using column-oriented data representat
light-weight compression. ...

11 Efficient passage ranking for document databases

Marcin Kaszkiel, Justin Zobel, Ron Sacks-Davis
October 1999 **Transactions on Information Systems (TOIS)** , Volume 17 Issue 4
Publisher: ACM Request Permissions
Full text available: Pdf (328.98 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 19,   Downloads (12 Months): 79,   Downloads (Overall): 573,   Citation Count: 26

Queries to text collections are resolved by ranking the documents in the collection and returning the highest-
documents to the user. An alternative retrieval method is to rank passages, that is, short fragments of docur
strategy that can ...

Keywords: inverted files, passage retrieval, query evaluation, text databases, text retrieval

12 Data layouts for object-oriented programs

Martin Hirzel
June 2007   **SIGMETRICS '07:** Proceedings of the 2007 ACM SIGMETRICS international conference on Measur
                 and modeling of computer systems
Publisher: ACM Request Permissions
Full text available: Pdf (506.78 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 4,   Downloads (12 Months): 77,   Downloads (Overall): 350,   Citation Count: 1

Object-oriented programs rely heavily on objects and pointers, making them vulnerable to slow downs from
TLB misses. The cache and TLB behavior depends on the data layout of objects in memory. There are many
data layouts with different ...

Keywords: GC, TLB, cache, data layout, data placement, hardware performance counters, memory subsyste spatial locality

Also published in:

June 2007 **SIGMETRICS Performance Evaluation Review** Volume 35 Issue 1

13 Astrolabe: A robust and scalable technology for distributed system monitoring, management, and data

Robbert Van Renesse, Kenneth P. Birman, Werner Vogels

May 2003   **Transactions on Computer Systems (TOCS)** , Volume 21 Issue 2

Publisher: ACM Request Permissions

Full text available: Pdf (341.62 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 46,   Downloads (12 Months): 380,   Downloads (Overall): 2657,   Citation Count: 8

Scalable management and self-organizational capabilities are emerging as central requirements for a genera large-scale, highly dynamic, distributed applications. We have developed an entirely new distributed informa management system called Astrolabe. ...

Keywords: Aggregation, epidemic protocols, failure detection, gossip, membership, publish-subscribe, scala

14 Comprehensive statistical admission control for streaming media servers

Roger Zimmermann, Kun Fu

November 2003 **MULTIMEDIA '03:** Proceedings of the eleventh ACM international conference on Multimedia

Publisher: ACM Request Permissions

Full text available: Pdf (1.93 MB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 4,   Downloads (12 Months): 29,   Downloads (Overall): 550,   Citation Count: 2

Streaming media servers and digital continuous media recorders require the scheduling of I/O requests to dis in real time. There are two accepted paradigms to achieve this: deterministic or statistical. The deterministic must assume ...

Keywords: admission control, disk performance, statistical modeling, streaming media

15 Dynamic data fusion for future sensor networks

Umakishore Ramachandran, Rajnish Kumar, Matthew Wolenetz, Brian Cooper, Bikash Agarwalla, Junsuk Shin, P Hutto, Arnab Paul

August 2006 **Transactions on Sensor Networks (TOSN)** , Volume 2 Issue 3

Publisher: ACM 🔖 Request Permissions

Full text available: 📄 Pdf (2.44 MB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 32,   Downloads (12 Months): 266,   Downloads (Overall): 1549,   Citation Count: 0

DFuse is an architectural framework for dynamic application-specified data fusion in sensor networks. It bridg important abstraction gap for developing advanced fusion applications that takes into account the dynamic n applications and sensor ...

Keywords: Sensor network, data fusion, energy awareness, in-network aggregation, middleware, platform, assignment

16 Sea of images

Daniel G. Aliaga, Thomas Funkhouser, Dimah Yanovsky, Ingrid Carlbom

October 2002 **VIS '02:** Proceedings of the conference on Visualization '02

Publisher: IEEE Computer Society

Full text available: 📄 Pdf (12.25 MB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 4,   Downloads (12 Months): 29,   Downloads (Overall): 413,   Citation Count: 8

A long-standing research problem in computer graphics is to reproduce the visual experience of walking thro large photorealistic environment interactively. On one hand, traditional geometry-based rendering systems fa of simulating the visual ...

Keywords: capture, image-based rendering, interactive, reconstruction, walkthrough

17 Wireless sensor networks for habitat monitoring

Alan Mainwaring, David Culler, Joseph Polastre, Robert Szewczyk, John Anderson

September 2002 **WSNA '02:** Proceedings of the 1st ACM international workshop on Wireless sensor networks an applications

Publisher: ACM 🔖 Request Permissions

Full text available: 📄 Pdf (542.04 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 169,   Downloads (12 Months): 1337,   Downloads (Overall): 6559,   Citation Count:

We provide an in-depth study of applying wireless sensor networks to real-world habitat monitoring. A set of

design requirements are developed that cover the hardware design of the nodes, the design of the sensor ne and the capabilities ...

Keywords: environmental monitoring, habitat monitoring, low power systems, sensor network architecture, sensor networks

18 Modelling information persistence on the web

Daniel Gomes, Mário J. Silva

July 2006   **ICWE '06:** Proceedings of the 6th international conference on Web engineering

Publisher: ACM

Full text available: Pdf (187.75 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 31, Downloads (Overall): 282,   Citation Count: 2

Models of web data persistency are essential tools for the design of efficient information extraction systems th repeatedly collect and process the data. This study models the persistence of web data through the measurem URL and content persistence across ...

Keywords: content persistence, tomba, url persistence